

Pak, M.

1646

19
1/26

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/199,874A

DATE: 03/22/2000
TIME: 15:50:50

Input Set: I199874A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

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APR 6 2000

00 APR - 6 AM 8:45

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1 <110> APPLICANT: Segre, Gino V.
2 Kronenberg, Henry M.
3 Abou-Samra, Abdul-Badi
4 Juppner, Harald
5 Potts, Jr., John T.
6 Schipani, Ernestina
7 <120> TITLE OF INVENTION: PARATHYROID HORMONE RECEPTOR AND DNA ENCODING SAME
8 <130> FILE REFERENCE: 00786/071005
9 <140> CURRENT APPLICATION NUMBER: US/09/199,874A
10 <141> CURRENT FILING DATE: 1998-11-24
11 <150> EARLIER APPLICATION NUMBER: US 08/471,494
12 <151> EARLIER FILING DATE: 1995-06-06
13 <160> NUMBER OF SEQ ID NOS: 21
14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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16 <211> LENGTH: 1862
17 <212> TYPE: DNA
18 <213> ORGANISM: Didelphoidea
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25 Met Gly Ala Pro Arg Ile
26 1 5
27 tcg cac agc ctt gcc ttg ctc ctc tgc tgc tcc gtg ctc agc tcc gtc 163
28 Ser His Ser Leu Ala Leu Leu Leu Cys Cys Ser Val Leu Ser Ser Val
29 10 15 20
30 tac gca ctg gtg gat gcc gat gat gtc ata acg aag gag gag cag atc 211
31 Tyr Ala Leu Val Asp Ala Asp Asp Val Ile Thr Lys Glu Glu Gln Ile
32 25 30 35
33 att ctt ctg cgc aat gcc cag gcc cag tgt gag cag cgc ctg aaa gag 259
34 Ile Leu Leu Arg Asn Ala Gln Ala Gln Cys Glu Gln Arg Leu Lys Glu
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36 gtc ctc agg gtc cct gaa ctt gct gaa tct gcc aaa gac tgg atg tca 307
37 Val Leu Arg Val Pro Glu Leu Ala Glu Ser Ala Lys Asp Trp Met Ser
38 55 60 65 70
39 agg tct gca aag aca aag aag gag aaa cct gca gaa aag ctt tat ccc 355
40 Arg Ser Ala Lys Thr Lys Lys Glu Lys Pro Ala Glu Lys Leu Tyr Pro
41 75 80 85
42 cag gca gag gag tcc agg gaa gtt tct gac agg agc cgg ctg cag gat 403
43 Gln Ala Glu Glu Ser Arg Glu Val Ser Asp Arg Ser Arg Leu Gln Asp
44 90 95 100

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PATENT APPLICATION US/09/199,874A

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49	Val Pro Gly Lys Val Val Ala Val Pro Cys Pro Asp Tyr Phe Tyr Asp	
50	120 125 130	
51	ttc aac cac aaa ggc cga gcc tat cgg cgc tgt gac agc aat ggc agc	547
52	Phe Asn His Lys Gly Arg Ala Tyr Arg Arg Cys Asp Ser Asn Gly Ser	
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61	Arg Leu Gly Met Ile Tyr Thr Val Gly Tyr Ser Ile Ser Leu Gly Ser	
62	185 190 195	
63	ctc act gtg gct gtg ctg att ctg ggt tac ttt agg agg tta cat tgc	739
64	Leu Thr Val Ala Val Leu Ile Leu Gly Tyr Phe Arg Arg Leu His Cys	
65	200 205 210	
66	acc cga aac tac att cac atg cat ctc ttc gtg tcc ttt atg ctc cgg	787
67	Thr Arg Asn Tyr Ile His Met His Leu Phe Val Ser Phe Met Leu Arg	
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69	gct gta agc atc ttc atc aag gat gct gtg ctc tac tcg ggg gtt tcc	835
70	Ala Val Ser Ile Phe Ile Lys Asp Ala Val Leu Tyr Ser Gly Val Ser	
71	235 240 245	
72	aca gat gaa atc gag cgc atc acc gag gag gag ctg agg gcc ttc aca	883
73	Thr Asp Glu Ile Glu Arg Ile Thr Glu Glu Leu Arg Ala Phe Thr	
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76	Glu Pro Pro Ala Asp Lys Ala Gly Phe Val Gly Cys Arg Val Ala	
77	265 270 275	
78	gta acc gtc ttc ctt tac ttc ctg acc acc aac tac tac tgg atc ctg	979
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81	gtg gaa ggc ctc tac ctt cac agc ctc atc ttc atg gct ttt ttc tct	1027
82	Val Glu Gly Leu Tyr Leu His Ser Leu Ile Phe Met Ala Phe Phe Ser	
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85	Glu Lys Lys Tyr Leu Trp Gly Phe Thr Leu Phe Gly Trp Gly Leu Pro	
86	315 320 325	
87	gcc gtg ttt gtc gct gtg tgg gtg acc gtg agg gct aca ctg gcc aac	1123
88	Ala Val Phe Val Ala Val Trp Val Thr Val Arg Ala Thr Leu Ala Asn	
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90	act gag tgc tgg gac ctg agt tcg ggg aat aag aaa tgg atc ata cag	1174
91	Thr Glu Cys Trp Asp Leu Ser Ser Gly Asn Lys Lys Trp Ile Ile Gln	
92	345 350 355	
93	gtg ccc atc ctg gca gct att gtg gtg aac ttt att ctt ttt atc aat	1259
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RAW SEQUENCE LISTING
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98	375	380	385	390
99	tgt gac acg agg caa cag tat aga aag ctg ctg aag tcc acg cta gtc			1315
100	Cys Asp Thr Arg Gln Gln Tyr Arg Lys Leu Leu Lys Ser Thr Leu Val			
101	395	400	405	
102	ctc atg ccg cta ttt ggg gtg cac tac atc gtc ttc atg gcc acg ccg			1363
103	Leu Met Pro Leu Phe Gly Val His Tyr Ile Val Phe Met Ala Thr Pro			
104	410	415	420	
105	tac aca gaa gta tca ggg att ctt tgg caa gtc caa atg cac tat gaa			1411
106	Tyr Thr Glu Val Ser Gly Ile Leu Trp Gln Val Gln Met His Tyr Glu			
107	425	430	435	
108	atg ctc ttc aat tca ttc cag gga ttt ttc gtt gcc att ata tac tgt			1459
109	Met Leu Phe Asn Ser Phe Gln Gly Phe Phe Val Ala Ile Ile Tyr Cys			
110	440	445	450	
111	ttc tgc aat gga gag gta caa gca gag atc aag aag tca tgg agc cga			1507
112	Phe Cys Asn Gly Glu Val Gln Ala Glu Ile Lys Lys Ser Trp Ser Arg			
113	455	460	465	470
114	tgg acc ctg gcc ttg gac ttc aag cgg aag gcc cgg agt ggc agc agt			1555
115	Trp Thr Leu Ala Leu Asp Phe Lys Arg Lys Ala Arg Ser Gly Ser Ser			
116	475	480	485	
117	acc tac agc tat ggc ccc atg gtg tca cat aca agt gtc acc aat gtg			1603
118	Thr Tyr Ser Tyr Gly Pro Met Val Ser His Thr Ser Val Thr Asn Val			
119	490	495	500	
120	gga cct cga ggg ggc tgg cct tgt ccc tca gcc ctc gac tagctcctgg			1652
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124	ttctgagaac tcattgcctt catctggccc agagcctggc accaaagatg acgggtatct			1772
125	caatggctct ggactttatg agccaatggt tggggAACAG cccccctccac tcctggagga			1832
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138				
139	tcg cac agc ctt gcc ttg ctc ctc tgc tgc tcc gtg ctc agc tcc gtc			163
140	Ser His Ser Leu Ala Leu Leu Leu Cys Cys Ser Val Leu Ser Ser Val			
141	10	15	20	
142	tac gca ctg gtg gat gcc gat gat gtc ata acg aag gag gag cag atc			211
143	Tyr Ala Leu Val Asp Ala Asp Asp Val Ile Thr Lys Glu Glu Gln Ile			
144	25	30	35	

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RAW SEQUENCE LISTING
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152	Arg Ser Ala Lys Thr Lys Lys Glu Lys Pro Ala Glu Lys Leu Tyr Pro	
153	75 80 85	
154	cag gca gag gag tcc agg gaa gtt tct gac agg agc cgg ctg cag gat	403
155	Gln Ala Glu Glu Ser Arg Glu Val Ser Asp Arg Ser Arg Leu Gln Asp	
156	90 95 100	
157	ggc ttc tgc cta cct gag tgg gac aac att gtg tgc tgg cct gct gga	451
158	Gly Phe Cys Leu Pro Glu Trp Asp Asn Ile Val Cys Trp Pro Ala Gly	
159	105 110 115	
160	gtg ccc ggc aag gtg gtg gcc gtg ccc tgc ccc gac tac ttc tac gac	499
161	Val Pro Gly Lys Val Val Ala Val Pro Cys Pro Asp Tyr Phe Tyr Asp	
162	120 125 130	
163	ttc aac cac aaa ggc cga gcc tat cgg cgc tgt gac agc aat ggc agc	547
164	Phe Asn His Lys Gly Arg Ala Tyr Arg Arg Cys Asp Ser Asn Gly Ser	
165	135 140 145 150	
166	tgg gag ctg gtg cct ggg aac aac cgg aca tgg gcg aat tac agc gaa	595
167	Trp Glu Leu Val Pro Gly Asn Asn Arg Thr Trp Ala Asn Tyr Ser Glu	
168	155 160 165	
169	tgt gtc aag ttt ctg acc aac gag acc cgg gaa cgg gaa gtc ttt gat	643
170	Cys Val Lys Phe Leu Thr Asn Glu Thr Arg Glu Arg Glu Val Phe Asp	
171	170 175 180	
172	cgc ctc gga atg atc tac act gtg ggc tac tcc atc tct ctg ggc tcc	691
173	Arg Leu Gly Met Ile Tyr Thr Val Gly Tyr Ser Ile Ser Leu Gly Ser	
174	185 190 195	
175	ctc act gtg gct gtg ctg att ctg ggt tac ttt agg agg tta cat tgc	739
176	Leu Thr Val Ala Val Leu Ile Leu Gly Tyr Phe Arg Arg Leu His Cys	
177	200 205 210	
178	acc cga aac tac att cac atg cat ctc ttc gtg tcc ttt atg ctc cgg	787
179	Thr Arg Asn Tyr Ile His Met His Leu Phe Val Ser Phe Met Leu Arg	
180	215 220 225 230	
181	gct gta agc atc ttc atc aag gat gct gtg ctc tac tcg ggg gtt tcc	835
182	Ala Val Ser Ile Phe Ile Lys Asp Ala Val Leu Tyr Ser Gly Val Ser	
183	235 240 245	
184	aca gat gaa atc gag cgc atc acc gag gag gag ctg agg gcc ttc aca	883
185	Thr Asp Glu Ile Glu Arg Ile Thr Glu Glu Leu Arg Ala Phe Thr	
186	250 255 260	
187	gag cct ccc cct gct gac aag gcg ggt ttt gtg ggc tgc aga gtg gcg	931
188	Glu Pro Pro Pro Ala Asp Lys Ala Gly Phe Val Gly Cys Arg Val Ala	
189	265 270 275	
190	gta acc gtc ttc ctt tac ttc ctg acc acc aac tac tac tgg atc ctg	979
191	Val Thr Val Phe Leu Tyr Phe Leu Thr Thr Asn Tyr Tyr Trp Ile Leu	
192	280 285 290	
193	gtg gaa ggc ctc tac ctt cac agc ctc atc ttc atg gct ttt ttc tct	1027
194	Val Glu Gly Leu Tyr Leu His Ser Leu Ile Phe Met Ala Phe Phe Ser	

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/199,874A

 DATE: 03/22/2000
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Input Set: I199874A.RAW

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198	315	320	325		
199	gcc gtg ttt gtc gct gtg tgg gtg acc gtg agg gct aca ctg gcc aac				1123
200	Ala Val Phe Val Ala Val Trp Val Thr Val Arg Ala Thr Leu Ala Asn				
201	330	335	340		
202	act gag tgc tgg gac ctg agt tcg ggg aat aag aaa tgg atc ata cag				1171
203	Thr Glu Cys Trp Asp Leu Ser Ser Gly Asn Lys Lys Trp Ile Ile Gln				
204	345	350	355		
205	gtg ccc atc ctg gca gct att gtg gtg aac ttt att ctt ttt atc aat				1219
206	Val Pro Ile Leu Ala Ala Ile Val Val Asn Phe Ile Leu Phe Ile Asn				
207	360	365	370		
208	ata atc aga gtc ctg gct act aaa ctc cgg gag acc aat gca ggg aga				1267
209	Ile Ile Arg Val Leu Ala Thr Lys Leu Arg Glu Thr Asn Ala Gly Arg				
210	375	380	385	390	
211	tgt gac acg agg caa cag tat aga aag ctg ctg aag tcc acg cta gtc				1315
212	Cys Asp Thr Arg Gln Gln Tyr Arg Lys Leu Leu Lys Ser Thr Leu Val				
213	395	400	405		
214	ctc atg ccg cta ttt ggg gtg cac tac atc gtc ttc atg gcc acg ccg				1363
215	Leu Met Pro Leu Phe Gly Val His Tyr Ile Val Phe Met Ala Thr Pro				
216	410	415	420		
217	tac aca gaa gta tca ggg att ctt tgg caa gtc caa atg cac tat gaa				1411
218	Tyr Thr Glu Val Ser Gly Ile Leu Trp Gln Val Gln Met His Tyr Glu				
219	425	430	435		
220	atg ctc ttc aat tca ttc cag gga ttt ttc gtt gcc att ata tac tgt				1459
221	Met Leu Phe Asn Ser Phe Gln Gly Phe Phe Val Ala Ile Ile Tyr Cys				
222	440	445	450		
223	ttc tgc aat gga gag gta caa gca gag atc aag aag tca tgg agc cga				1507
224	Phe Cys Asn Gly Glu Val Gln Ala Glu Ile Lys Lys Ser Trp Ser Arg				
225	455	460	465	470	
226	tgg acc ctg gcc ttg gac ttc aag cgg aag gcc cgg agt ggc agc agt				1555
227	Trp Thr Leu Ala Leu Asp Phe Lys Arg Lys Ala Arg Ser Gly Ser Ser				
228	475	480	485		
229	acc tac agc tat ggc ccc atg gtg tca cat aca agt gtc acc aat gtg				1603
230	Thr Tyr Ser Tyr Gly Pro Met Val Ser His Thr Ser Val Thr Asn Val				
231	490	495	500		
232	gga cct cga ggg ggg ctg gcc ttg tcc ctc agc cct cga cta gct cct				1651
233	Gly Pro Arg Gly Gly Leu Ala Leu Ser Leu Ser Pro Arg Leu Ala Pro				
234	505	510	515		
235	ggg gct gga gcc agt gcc aat ggc cat cac cag ttg cct ggc tat gtg				1699
236	Gly Ala Gly Ala Ser Ala Asn Gly His His Gln Leu Pro Gly Tyr Val				
237	520	525	530		
238	aag cat ggt tcc att tct gag aac tca ttg cct tca tct ggc cca gag				1747
239	Lys His Gly Ser Ile Ser Glu Asn Ser Leu Pro Ser Ser Gly Pro Glu				
240	535	540	545	550	
241	cct ggc acc aaa gat gac ggg tat ctc aat ggc tct gga ctt tat gag				1795
242	Pro Gly Thr Lys Asp Asp Gly Tyr Leu Asn Gly Ser Gly Leu Tyr Glu				
243	555	560	565		
244	cca atg gtt ggg gaa cag ccc cct cca ctc ctg gag gag gag aga gag				1843

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



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VERIFICATION SUMMARY
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,874A

DATE: 03/22/2000
TIME: 15:50:50

Input Set: I199874A.RAW

Line ? Error/Warning

Original Text

543 W "N" or "Xaa" used: Feature required

Tyr Xaa Arg Ala Thr Leu Ala Asn Thr Gly C